

- 20 -

**Patent claims**

- 5 1. A method of establishing a binaural communication link between two hearing devices at an individual by at least two electric conductors, characterized by establishing one conductor by the individual's body and the at least one second conductor by a wire.
- 10 2. The method of claim 1, characterized by bi-directionally transmitting electrical signals between said hearing devices.
- 15 3. The method of one of claims 1 or 2, characterized by transmitting at least one of control signals and of audio signals via said communication link.
- 20 4. The method of one of claims 1 to 3, characterized by providing an electronic unit communicating by said link with said devices.
- 25 5. The method of claim 4, characterized by said unit comprising a receiver-/transmitter-unit for wireless communication and establishing communication.
6. The method of one of claims 1 to 5, characterized by one of said two hearing devices being a master and the second of said hearing devices a slave.
7. The method of claim 5, characterized by providing said transmitter-/receiver unit between said two hearing devices.

- 21 -

8. The method of one of claims 1 to 7, characterized by applying said wire to at least one of said hearing devices by magnetic attraction.
9. The method of claim 8, characterized by establishing by said magnetic attraction an electric conduction contact of said wire to an input tab of said at least one hearing device.
10. The method of claim 9, characterized by establishing said conduction contact by at least one of a magnetic and of a ferromagnetic member.
11. The method of claim 9, characterized by establishing said conduction contact with at least one of a non-magnetic metal contact member, a conductive polymer contact member.
12. The method of claim 8, characterized by establishing by said magnetic attraction a capacitive electric contact of said wire to an input of said at least one hearing device.
13. The method of one of claims 1 to 12, characterized by establishing electric contact to said individual's body from said devices by a conduction body electrode comprising at least one of a metallic and of a conductive polymer body electrode.
14. The method of one of claims 1 to 11, characterized by establishing electric contact to said individual's body by a series capacitance electrode from said hearing devices.

- 22 -

15. The method of claim 8, characterized by establishing a predetermined relative positioning of a contact area at said wire and a contact area at said at least one hearing device, by said magnetic attraction.

5 16. The method of claim 8, characterized by enabling or disabling applying said wire to one of said two hearing devices by appropriately selecting magnetic polarities of respective magnetic arrangements at said at least one hearing device and said wire.

10 17. The method of one of claims 1 to 16, characterized by providing an electronic unit interconnected between said two hearing devices by said communication link and providing at said electronic unit an electrode to said individual's body comprising one of a conduction body electrode, preferably of at least one of a metal and of a conductive polymer and of a capacitive body electrode.

15 18. The method of one of claims 1 to 17, characterized by said hearing devices being one of in-the-ear and of outside-the-ear hearing devices.

20 19. The method of one of claims 1 to 18, characterized by said hearing devices being therapeutical hearing aid devices.

25 20. The method of one of claims 1 to 19, characterized by integrating said communication link into a head-worn assembly, preferably into glasses.

- 23 -

21. The method of claim 20, characterized by establishing electric connection of said wire to at least one of said hearing devices by putting on said glasses.
22. A binaural hearing device set comprising a pair of hearing devices and a communication link between said devices, characterized by said communication link comprising a body electrode for electrically contacting the body of an individual carrying said set at both of said hearing devices.
23. The set of claim 22, characterized by a communication link comprising at least one single wire.
24. The set of claim 22 or 23, said communication link comprising an electronic unit and two single wires respectively connectable to said hearing devices on one side and to said electronic unit on the other side.
25. The set of claim 24, said electronic unit comprising a wireless transmitter-/receiver-unit operationally connected to contact areas for said two wires.
26. The set of one of claims 22 to 25, characterized by a magnetic connection arrangement between at least one end of said wire and at least one of said two hearing devices.
27. The set of claim 26, characterized by said magnetic connection further comprising conductive contact members at said hearing device and at said one end respectively for establishing mutual galvanic contact between said wire and said hearing device.

- 24 -

28. The set of claim 27, characterized by at least one of said conductive members comprising a magnet or being made of ferromagnetic metal.
29. The set of claim 27, characterized by at least one of said conductive members comprising at least one of non-magnetic metal and of conductive polymer.
30. The set of claim 26, characterized by said magnetic connection comprising a series capacitance, established by establishing said magnetic connection.
31. The set of one of claims 22 to 30, said body electrode being a conductive plate or a conductive plate covered with a dielectric material.
32. The set of one of claims 22 to 31, characterized by said wire being integrated into a head-worn assembly, preferably into glasses.
33. The set of one of claims 22 to 32, characterized by said hearing devices being in-the-ear or outside-the-ear hearing devices.
34. The set of one of claims 22 to 33, characterized by said hearing devices being hearing aid devices.